

Table II
Identification of Achievable Performance Standards
Source Category: Bakery Ovens

Rule/Measure	Rule/Measure				
	Bay Area AQMD Rule 8-42, Large Commercial Bread Bakeries, adopted 9/20/89, amended 6/1/94	San Diego Co. APCD Rule 67.24, Bakery Ovens, adopted 6/7/94, amended and effective 5/15/96	Sacramento Metropolitan AQMD Rule 458, Large Commercial Bread Bakeries, adopted 6/7/94, amended 9/5/96	South Coast AQMD Rule 1153, Commercial Bakery Ovens, adopted 1/4/91, amended 1/13/95	U.S. EPA, Alternative Control Technology Document for Bakery Oven Emissions, 12/92
Exemptions	<p>Low-emitting ovens that emit less than 150 pounds ethanol per operating day, averaged over 1 year (28 tons per year)</p> <p>Small bakeries with total production of bread, buns, and rolls less than 100,000 pounds per operating day, averaged over all operating days in the month</p> <p>Existing ovens operating prior to 1/1/88 that emit less than 250 pounds ethanol per operating day, averaged over a year (46 tons per year)</p> <p>Equipment used exclusively for baking of bakery products other than breads, buns, and rolls (e.g., muffins, croutons, breadsticks, and crackers).</p>	<p>Bakery ovens at stationary sources where combined rated heat input capacity of all bakery ovens is less than 2 million BTU per hour</p> <p>Bakery ovens at stationary sources where uncontrolled VOC emissions from all bakery ovens combined is less than 50 tons per year</p>	Small bakeries that emit less than 100 pounds total VOC per day (18 tons per year)	Existing ovens that emit less than 50 pounds uncontrolled VOC per operating day (9 tons per year)	

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Applicability	Bread ovens at large commercial bread bakeries that emit precursor organic compounds	Bakery ovens which emit VOC during baking of yeast-leavened products	Bread ovens at large commercial bread bakeries that emit VOC	Commercial bakery ovens with rated heat input capacity of 2 million BTU per hour or more and with average daily emission of 50 pounds or more of VOC	
Comments	Thermal incineration and catalytic incineration are technically and technologically feasible and cost effective (Technical Assessment Report, 7/27/89)	Catalytic oxidizer most cost-effective (Socioeconomic Impact Assessment, 4/94)	Thermal incineration and catalytic incineration most technically feasible (Staff Report, 6/7/94)	Regenerative thermal oxidation and catalytic oxidation technologically and economically feasible (Staff Report, 11/19/90)	Direct flame thermal oxidation is technically feasible but relatively expensive Regenerative oxidation is feasible Catalytic oxidation is technically and economically feasible

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